FIG. 1A
(PRIOR ART)

EAGLE ANALYTICAL RDM 50X THROUGH MICROSCOPE

FIG. 1B

NEW SCANNER SYSTEM~16X

BEST AVAILABLE COPY

FIG. 2

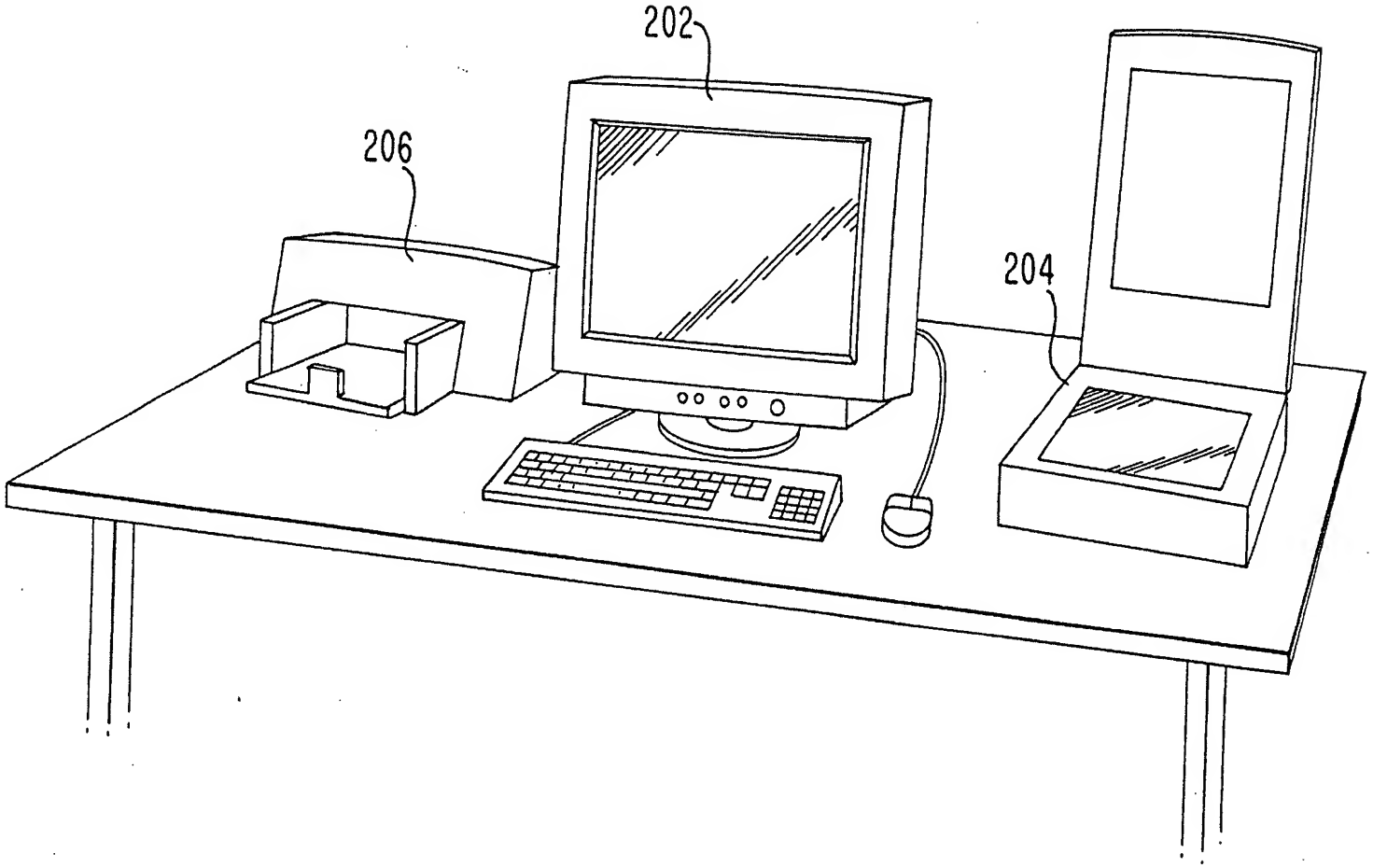


FIG. 3

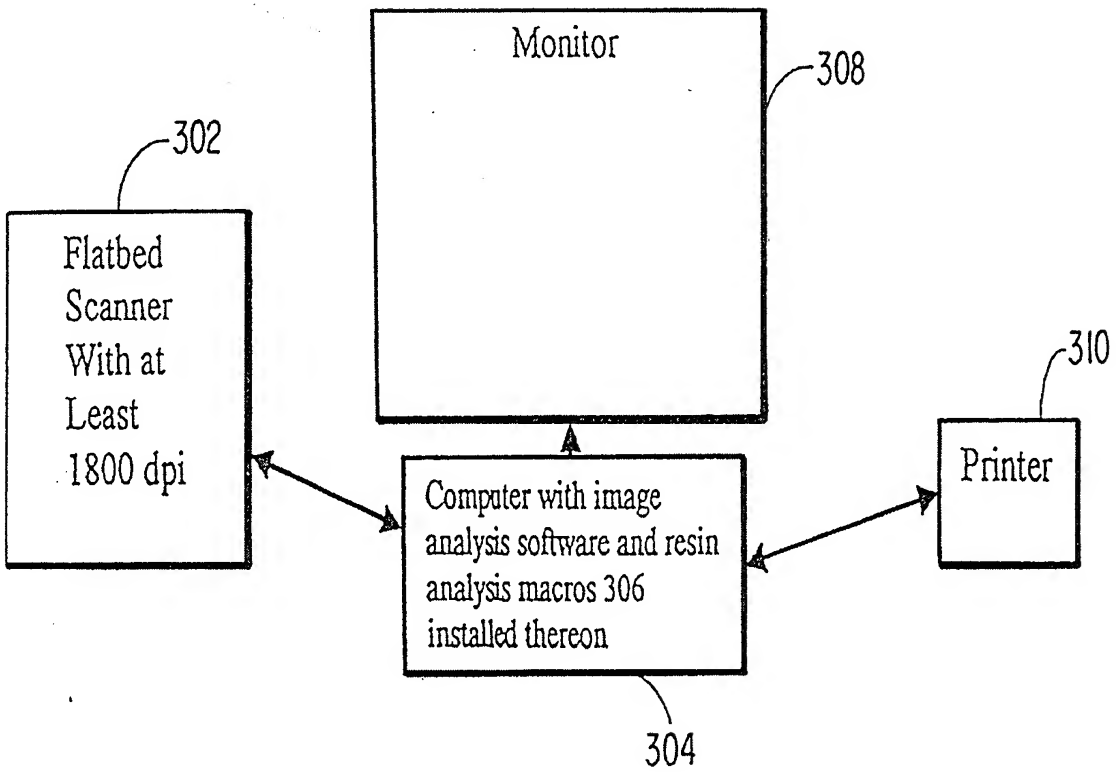

Monitor
308
302
Flatbed
Scanner
With at
Least
1800 dpi
310
Printer
Computer with image
analysis software and resin
analysis macros 306
installed thereon
304

FIG. 4

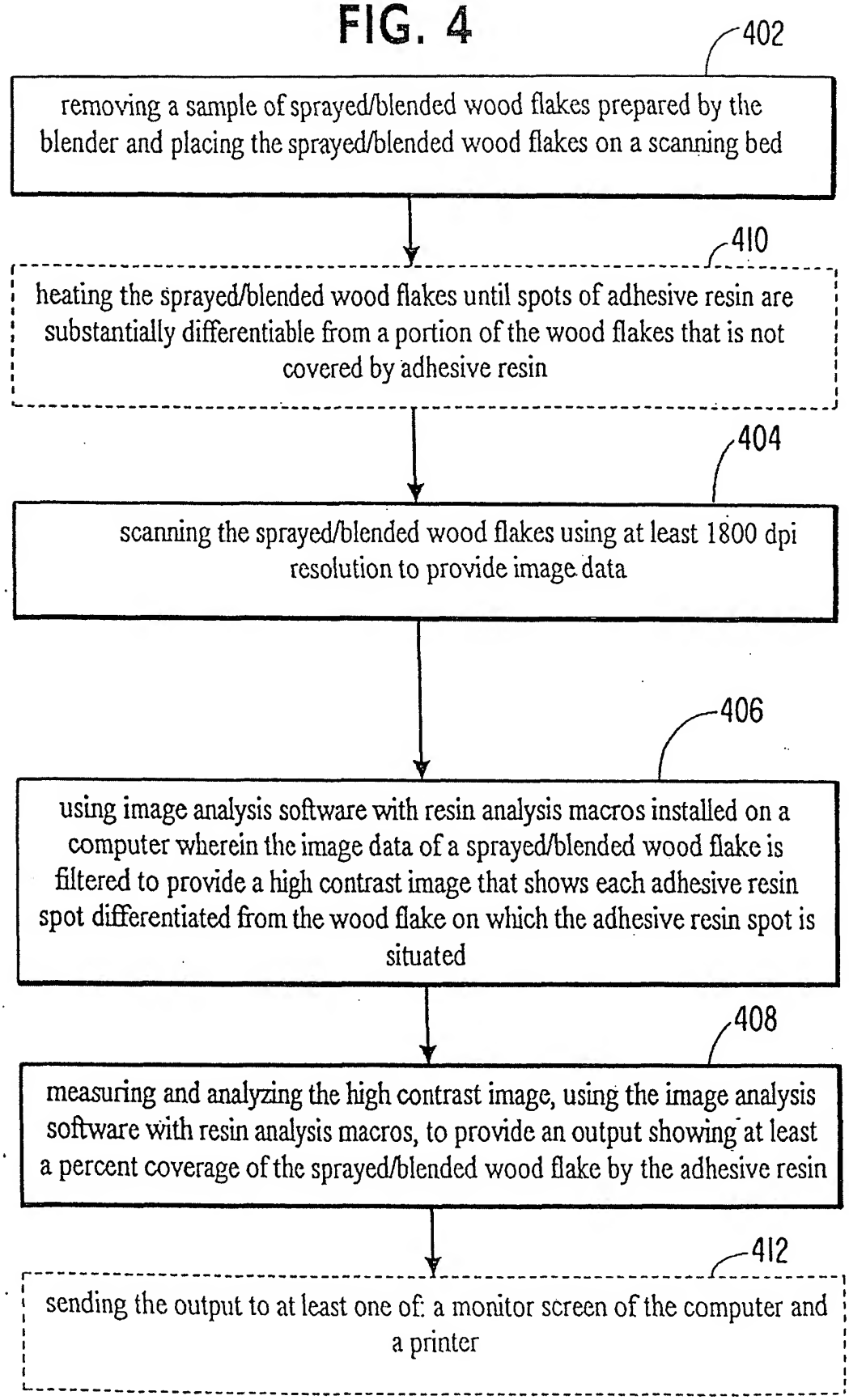

402
removing a sample of sprayed/blended wood flakes prepared by the blender and placing the sprayed/blended wood flakes on a scanning bed
410
heating the sprayed/blended wood flakes until spots of adhesive resin are substantially differentiable from a portion of the wood flakes that is not covered by adhesive resin
404
scanning the sprayed/blended wood flakes using at least 1800 dpi resolution to provide image data
406
using image analysis software with resin analysis macros installed on a computer wherein the image data of a sprayed/blended wood flake is filtered to provide a high contrast image that shows each adhesive resin spot differentiated from the wood flake on which the adhesive resin spot is situated
408
measuring and analyzing the high contrast image, using the image analysis software with resin analysis macros, to provide an output showing at least a percent coverage of the sprayed/blended wood flake by the adhesive resin
412
sending the output to at least one of: a monitor screen of the computer and a printer

FIG. 5

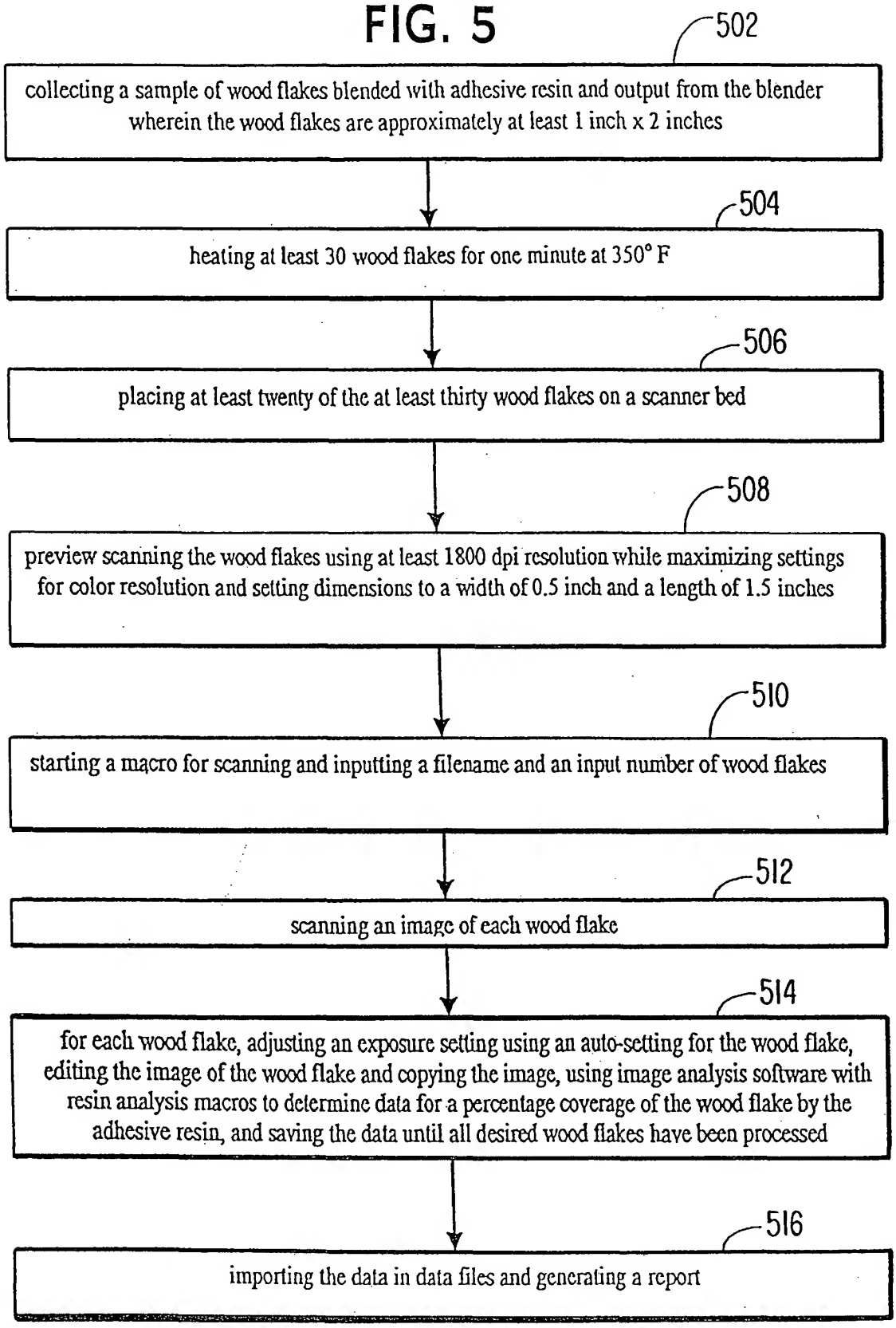
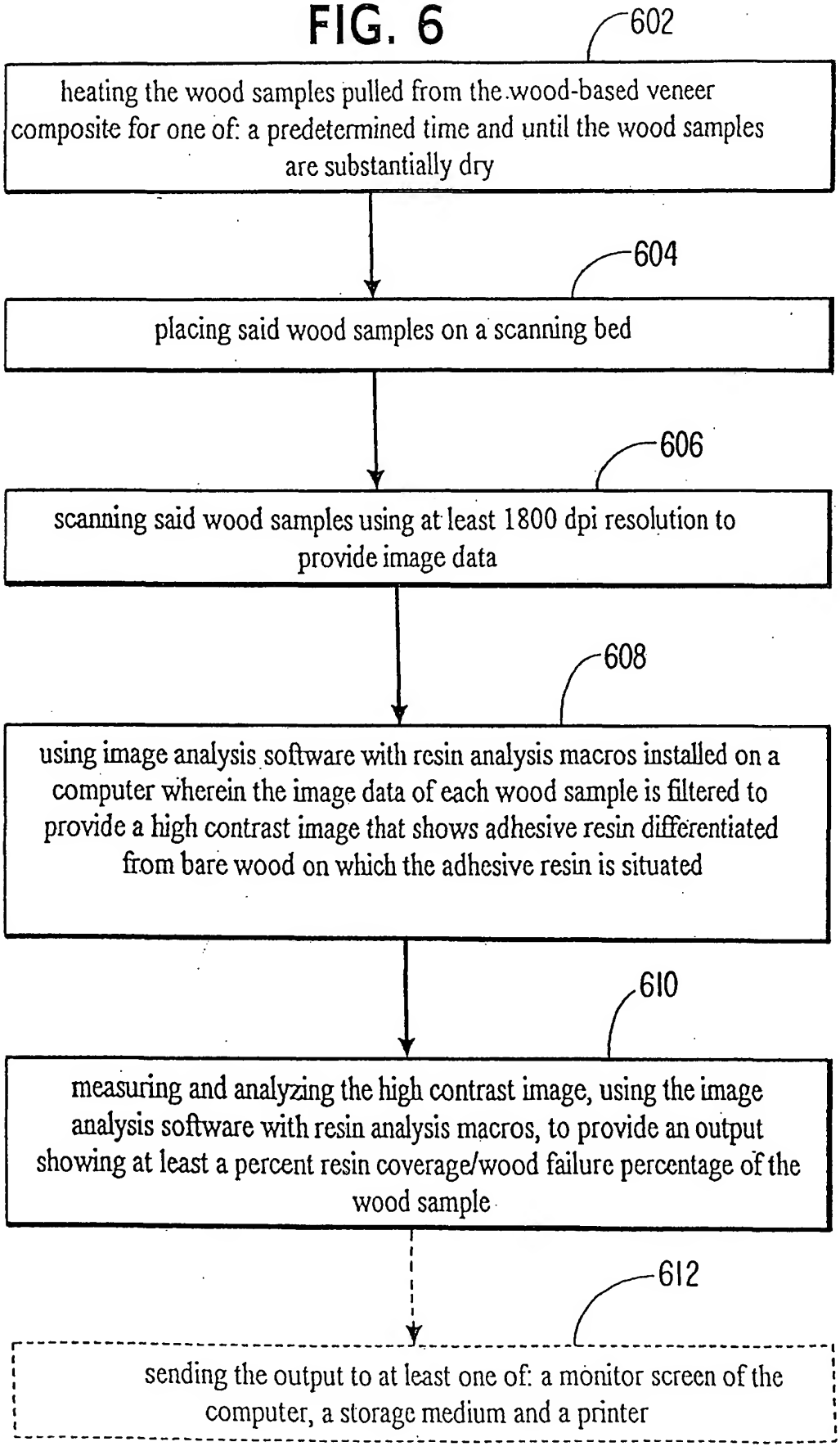

502
collecting a sample of wood flakes blended with adhesive resin and output from the blender wherein the wood flakes are approximately at least 1 inch x 2 inches
504
heating at least 30 wood flakes for one minute at 350° F
506
placing at least twenty of the at least thirty wood flakes on a scanner bed
508
preview scanning the wood flakes using at least 1800 dpi resolution while maximizing settings for color resolution and setting dimensions to a width of 0.5 inch and a length of 1.5 inches
510
starting a macro for scanning and inputting a filename and an input number of wood flakes
512
scanning an image of each wood flake
514
for each wood flake, adjusting an exposure setting using an auto-setting for the wood flake, editing the image of the wood flake and copying the image, using image analysis software with resin analysis macros to determine data for a percentage coverage of the wood flake by the adhesive resin, and saving the data until all desired wood flakes have been processed
516
importing the data in data files and generating a report

FIG. 6


602
heating the wood samples pulled from the wood-based veneer composite for one of: a predetermined time and until the wood samples are substantially dry
604
placing said wood samples on a scanning bed
606
scanning said wood samples using at least 1800 dpi resolution to provide image data
608
using image analysis software with resin analysis macros installed on a computer wherein the image data of each wood sample is filtered to provide a high contrast image that shows adhesive resin differentiated from bare wood on which the adhesive resin is situated
610
measuring and analyzing the high contrast image, using the image analysis software with resin analysis macros, to provide an output showing at least a percent resin coverage/wood failure percentage of the wood sample
612
sending the output to at least one of: a monitor screen of the computer, a storage medium and a printer